



# EBERLINE SERVICES

RECEIVED JUNE 24, 2011

REVISION 1

EBERLINE ANALYTICAL CORPORATION

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June 22, 2011

1216122

Mr. Michael Neely  
CH2M Hill Plateau Remediation Company  
P.O. Box 1600  
Mail Stop - B6-06  
Richland, WA 99352

RDR R-7203 KB 6-30-11

Reference: P.O. #33677  
Eberline Analytical S1-06-011-7893, SDG H4598

Dear Mr. Neely:

Enclosed is a revised data report for eleven solid (soil) samples designated under SAF No. F11-127 received at Eberline Analytical on June 1, 2011. Results were originally reported on June 13, 2011. A request for reanalysis at a lower detection limit was received on June 15 as order number 110614EBRLNE-R7203 (attached).

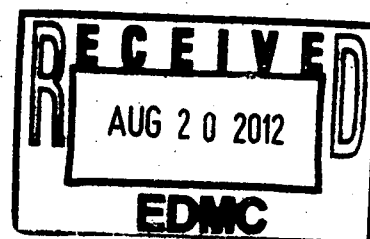
Please call if you have any questions concerning this report.

Sincerely,

N. Joseph Verville  
Client Services Manager

NJV/

Enclosure: Data Package



RDR

300 06/24/11

Eberline Analytical  
Report S1-06-011-7893  
June 22, 2011

CH2M Hill Plateau Remediation Company  
SDG H4598

Case Narrative

Page 1 of 1

1.0 GENERAL

CH2M Hill Plateau Remediation Company (CHPRC) Sample Delivery Group H4598 was composed of eleven solid (soil) samples designated under SAF No. F11-127 with a Project Designation of: ARRA Verification Sampling of the 216-S-26 Waste Site and 200-W-148-PL.

The samples were received as stated on the chain-of-custody documents. Any discrepancies are noted on the Eberline Analytical Sample Receipt Checklist.

2.0 ANALYSIS NOTES

2.1 Tritium Analysis

No other problems were encountered during the course of the analyses.

3.0 Case Narrative Certification Statement

"I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data obtained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the following signature."

  
\_\_\_\_\_  
N. Joseph Verville  
Client Services Manager

6/21/11  
\_\_\_\_\_  
Date

EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

REVISION 1

SDG 7893  
Contact N. Joseph Verville

Client CHPRC  
Contract No. 33677  
Case no SDG\_H4598

S U M M A R Y   D A T A   S E C T I O N

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ngv  
Prepared by

ngv  
Reviewed by

Lab id EBRLNE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-TOC  
Version 3.06  
Report date 06/21/11

SDG 7893  
Contact N. Joseph Verville

## REPORT GUIDE

Client CHPRC  
Contract No. 33677  
Case no SDG H4598

## ABOUT THE DATA SUMMARY SECTION

The Data Summary Section of a Data Package has all data, in several useful orders, necessary for first level, routine review of the data package for a Sample Delivery Group (SDG). This section follows the Data Package Narrative, which has an overview of the data package and a discussion of special problems. It is followed by the Raw Data Section, which has full details.

The Data Summary Section has several groups of reports:

## SAMPLE SUMMARIES

The Sample and QC Summary Reports show all samples, including QC samples, reported in one SDG. These reports cross-reference client and lab sample identifiers.

## PREPARATION BATCH SUMMARY

The Preparation Batch Summary Report shows all preparation batches (lab groupings reflecting how work was organized) relevant to the reported SDG with information necessary to check the completeness and consistency of the SDG.

## WORK SUMMARY

The Work Summary Report shows all samples and work done on them relevant to the reported SDG.

## METHOD BLANKS

The Method Blank Reports, one for each Method Blank relevant to the SDG, show all results and primary supporting information for the blanks.

## LAB CONTROL SAMPLES

The Lab Control Sample Reports, one for each Lab Control Sample relevant to the SDG, show all results, recoveries and primary supporting information for these QC samples.

## REPORT GUIDES

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## SUMMARY DATA SECTION

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Lab id EBRLNE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-RG  
Version 3.06  
Report date 06/21/11

SDG 7893  
Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC  
Contract No. 33677  
Case no SDG\_H4598

## ABOUT THE DATA SUMMARY SECTION

## DUPLICATES

The Duplicate Reports, one for each Duplicate and Original sample pair relevant to the SDG, show all results, differences and primary supporting information for these QC samples.

## MATRIX SPIKES

The Matrix Spike Reports, one for each Spiked and Original sample pair relevant to the SDG, show all results, recoveries and primary supporting information for these QC samples.

## DATA SHEETS

The Data Sheet Reports, one for each client sample in the SDG, show all results and primary supporting information for these samples.

## METHOD SUMMARIES

The Method Summary Reports, one for each test used in the SDG, show all results, QC and method performance data for one analyte on one or two pages. (A test is a short code for the method used to do certain work to the client's specification.)

## REPORT GUIDES

The Report Guides, one for each of the above groups of reports, have documentation on how to read the associated reports.

## REPORT GUIDES

Page 2

## SUMMARY DATA SECTION

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Protocol CHPRC  
Version Ver 1.0  
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## EBERLINE SERVICES/RICHMOND

REVISION 1

SAMPLE DELIVERY GROUP H4598

SDG 7893

Contact N. Joseph Verville

## LAB SAMPLE SUMMARY

Client CHPRCContract No. 33677Case no SDG H4598

LAB						CHAIN OF		
SAMPLE ID	CLIENT SAMPLE ID	LOCATION	MATRIX	LEVEL	SAF NO	CUSTODY	COLLECTED	
S106011-01	B2F053	216-S-26 RV 1	SOLID		F11-127	F11-127-043	05/25/11 10:20	
S106011-02	B2F054	216-S-26 RV 2	SOLID		F11-127	F11-127-044	05/25/11 10:30	
S106011-03	B2F055	216-S-26 RV 3	SOLID		F11-127	F11-127-045	05/25/11 10:30	
S106011-04	B2F056	216-S-26 RV 4	SOLID		F11-127	F11-127-046	05/25/11 10:40	
S106011-05	B2F057	216-S-26 RV 5	SOLID		F11-127	F11-127-047	05/25/11 10:45	
S106011-06	B2F058	216-S-26 RV 5 Dup	SOLID		F11-127	F11-127-048	05/25/11 10:45	
S106011-07	B2F059	216-S-26 RV 6	SOLID		F11-127	F11-127-049	05/25/11 10:52	
S106011-08	B2F060	216-S-26 RV 7	SOLID		F11-127	F11-127-050	05/25/11 11:10	
S106011-09	B2F061	216-S-26 RV 8	SOLID		F11-127	F11-127-051	05/25/11 11:15	
S106011-10	B2F062	200-W-148-PL RV 9	SOLID		F11-127	F11-127-052	05/25/11 11:25	
S106011-11	B2F063	200-W-148-PL RV 10	SOLID		F11-127	F11-127-053	05/25/11 11:25	
S106011-15	Lab Control Sample		SOLID		F11-127			
S106011-16	Method Blank		SOLID		F11-127			
S106011-17	Duplicate (S106011-05)	216-S-26 RV 5	SOLID		F11-127		05/25/11 10:45	

LAB SUMMARY

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SUMMARY DATA SECTION

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Lab id EBRLNEProtocol CHPRCVersion Ver 1.0Form DVD-LSVersion 3.06Report date 06/21/11

# REVISION 1 EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4598

## QC SUMMARY

SDG 7893  
Contact N. Joseph Verville

Client CHPRC  
Contract No. 33677  
Case no SDG H4598

QC BATCH	CHAIN OF CUSTODY	CLIENT SAMPLE ID	MATRIX	% SOLIDS	SAMPLE AMOUNT	BASIS AMOUNT	DAYS SINCE RECEIVED	LAB COLL SAMPLE ID	DEPARTMENT SAMPLE ID
7893	F11-127-043	B2F053	SOLID	92.2	151 g		06/01/11 7	S106011-01	7893-001
	F11-127-044	B2F054	SOLID	94.9	155 g		06/01/11 7	S106011-02	7893-002
	F11-127-045	B2F055	SOLID	93.8	159 g		06/01/11 7	S106011-03	7893-003
	F11-127-046	B2F056	SOLID	92.0	160 g		06/01/11 7	S106011-04	7893-004
	F11-127-047	B2F057	SOLID	94.3	153 g		06/01/11 7	S106011-05	7893-005
	F11-127-048	B2F058	SOLID	94.4	153 g		06/01/11 7	S106011-06	7893-006
	F11-127-049	B2F059	SOLID	91.5	134 g		06/01/11 7	S106011-07	7893-007
	F11-127-050	B2F060	SOLID	94.3	168 g		06/01/11 7	S106011-08	7893-008
	F11-127-051	B2F061	SOLID	89.5	140 g		06/01/11 7	S106011-09	7893-009
	F11-127-052	B2F062	SOLID	91.7	164 g		06/01/11 7	S106011-10	7893-010
	F11-127-053	B2F063	SOLID	92.8	150 g		06/01/11 7	S106011-11	7893-011
		Method Blank	SOLID					S106011-16	7893-016
		Lab Control Sample	SOLID					S106011-15	7893-015
		Duplicate (S106011-05)	SOLID	94.3	153 g		06/01/11 7	S106011-17	7893-017

QC SUMMARY

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SUMMARY DATA SECTION

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Form DVD-QS  
Version 3.06  
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# EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4598

REVISION 1

SDG 7893

Contact N. Joseph Verville

## PREP BATCH SUMMARY

Client CHPRC

Contract No. 33677

Case no SDG H4598

TEST	MATRIX	METHOD	PREPARATION ERROR		PLANCHETS ANALYZED						QUALI-
			BATCH	2σ %	CLIENT	MORE	RE	BLANK	LCS	DUP/ORIG	
Liquid Scintillation Counting											
H	SOLID	Tritium in Solids	7299-204	10.0	11			1	1	1/1	

Blank, LCS, Duplicate and Spike planchets are those in the same preparation batch as some Client sample.

PREP BATCH SUMMARY

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SUMMARY DATA SECTION

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Lab id EBRLNE

Protocol CHPRC

Version Ver 1.0

Form DVD-PBS

Version 3.06

Report date 06/21/11



## EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4598

REVISION 1

SDG 7893

Contact N. Joseph Verville

## LAB WORK SUMMARY

Client CHPRCContract No. 33677Case no SDG H4598

LAB SAMPLE	CLIENT SAMPLE ID										
COLLECTED	LOCATION	MATRIX			SUF-						
RECEIVED	CUSTODY	SAF No	PLANCHET	TEST	FIX	ANALYZED	REVIEWED	BY	METHOD		
S106011-01	B2F053		7893-001	H	A1	06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	216-S-26 RV 1	SOLID									
06/01/11	F11-127-043	F11-127									
S106011-02	B2F054		7893-002	H	A1	06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	216-S-26 RV 2	SOLID									
06/01/11	F11-127-044	F11-127									
S106011-03	B2F055		7893-003	H	A1	06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	216-S-26 RV 3	SOLID									
06/01/11	F11-127-045	F11-127									
S106011-04	B2F056		7893-004	H	A1	06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	216-S-26 RV 4	SOLID									
06/01/11	F11-127-046	F11-127									
S106011-05	B2F057		7893-005	H	A1	06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	216-S-26 RV 5	SOLID									
06/01/11	F11-127-047	F11-127									
S106011-06	B2F058		7893-006	H	A1	06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	216-S-26 RV 5 Dup	SOLID									
06/01/11	F11-127-048	F11-127									
S106011-07	B2F059		7893-007	H	A1	06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	216-S-26 RV 6	SOLID									
06/01/11	F11-127-049	F11-127									
S106011-08	B2F060		7893-008	H	A1	06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	216-S-26 RV 7	SOLID									
06/01/11	F11-127-050	F11-127									
S106011-09	B2F061		7893-009	H	A1	06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	216-S-26 RV 8	SOLID									
06/01/11	F11-127-051	F11-127									
S106011-10	B2F062		7893-010	H	A1	06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	200-W-148-PL RV 9	SOLID									
06/01/11	F11-127-052	F11-127									

## WORK SUMMARY

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## SUMMARY DATA SECTION

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Lab id EBRINEProtocol CHPRCVersion Ver 1.0Form DVD-LWSVersion 3.06Report date 06/21/11

EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4598

REVISION 1

SDG 7893

Contact N. Joseph Verville

WORK SUMMARY, cont.

Client CHPRC

Contract No. 33677

Case no SDG H4598

LAB SAMPLE	CLIENT SAMPLE ID										
COLLECTED	LOCATION	MATRIX			SUF-						
RECEIVED	CUSTODY	SAF No	PLANCHET	TEST	FIX	ANALYZED	REVIEWED	BY	METHOD		
S106011-11	B2F063		7893-011	H	A1	06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	200-W-148-PL RV 10	SOLID									
06/01/11	F11-127-053	F11-127									
S106011-15	Lab Control Sample		7893-015	H		06/17/11	06/21/11	BW	Tritium in Solids		
		SOLID									
		F11-127									
S106011-16	Method Blank		7893-016	H		06/17/11	06/21/11	BW	Tritium in Solids		
		SOLID									
		F11-127									
S106011-17	Duplicate (S106011-05)		7893-017	H		06/17/11	06/21/11	BW	Tritium in Solids		
05/25/11	216-S-26 RV 5	SOLID									
06/01/11		F11-127									

COUNTS OF TESTS BY SAMPLE TYPE

TEST	SAF No	METHOD	REFERENCE	CLIENT	MORE	RE	BLANK	LCS	DUP SPIKE	TOTAL
H	F11-127	Tritium in Solids	TRITIUM_COX_LSC	11			1	1	1	14
TOTALS				11			1	1	1	14

WORK SUMMARY

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SUMMARY DATA SECTION

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Lab id EBRLINE

Protocol CHPRC

Version Ver 1.0

Form DVD-LWS

Version 3.06

Report date 06/21/11

EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

REVISION 1

7893-016

Method Blank

METHOD BLANK

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106011-16</u>	Client sample id <u>Method Blank</u>	
Dept sample id <u>7893-016</u>	Material/Matrix <u>SOLID</u>	
	SAF No <u>F11-127</u>	

ANALYTE	CAS NO	RESULT pCi/g	2 $\sigma$ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	-2.34	2.6	4.68	30.0	U	H

QC-BLANK #78803
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Lab id <u>EBRINE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>06/21/11</u>

## EBERLINE SERVICES/RICHMOND

SAMPLE DELIVERY GROUP H4598

REVISION 1

7893-015

Lab Control Sample

## LAB CONTROL SAMPLE

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>S106011-15</u>	Client sample id <u>Lab Control Sample</u>	
Dept sample id <u>7893-015</u>	Material/Matrix <u>SOLID</u>	
	SAF No <u>F11-127</u>	

ANALYTE	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS TEST	ADDED pCi/g	2σ ERR pCi/g	REC %	3σ LMTS (TOTAL)	PROTOCOL LIMITS
Tritium	144	6.3	4.34	30.0	H	166	6.6	87	85-115	80-120

QC-LCS #78802

LAB CONTROL SAMPLES

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Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-LCS</u>
Version <u>3.06</u>
Report date <u>06/21/11</u>

EBERLINE SERVICES/RICHMOND

REVISION 1

SAMPLE DELIVERY GROUP H4598

7893-017

B2F057

DUPLICATE

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
DUPLICATE	ORIGINAL	
Lab sample id <u>S106011-17</u>	Lab sample id <u>S106011-05</u>	Client sample id <u>B2F057</u>
Dept sample id <u>7893-017</u>	Dept sample id <u>7893-005</u>	Location/Matrix <u>216-S-26 RV 5</u>
	Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 10:45</u> <u>153 g</u>
% solids <u>94.3</u>	% solids <u>94.3</u>	Custody/SAF No <u>F11-127-047</u> <u>F11-127</u>

ANALYTE	DUPLICATE pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST	ORIGINAL pCi/g	2σ ERR (COUNT)	MDA pCi/g	QUALI- FIERS	RPD %	3σ TOT	DER σ
Tritium	11.4	3.4	5.00	30.0		H	12.3	3.4	4.90		8	64	0.4

QC-DUP#5 78804

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

DUPLICATES

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Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DUP</u>
Version <u>3.06</u>
Report date <u>06/21/11</u>

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EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

7893-001

B2F053

DATA SHEET

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106011-01</u>	Client sample id <u>B2F053</u>	
Dept sample id <u>7893-001</u>	Location/Matrix <u>216-S-26 RV 1</u>	<u>SOLID</u>
Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 10:20</u>	<u>151 g</u>
% solids <u>92.2</u>	Custody/SAF No <u>F11-127-043</u>	<u>F11-127</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	2.40	2.8	4.57	30.0	U	H

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

REVISION 1

EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

7893-002

B2F054

DATA SHEET

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106011-02</u>	Client sample id <u>B2F054</u>	
Dept sample id <u>7893-002</u>	Location/Matrix <u>216-S-26 RV 2</u>	<u>SOLID</u>
Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 10:30</u>	<u>155 g</u>
% solids <u>94.9</u>	Custody/SAF No <u>F11-127-044</u>	<u>F11-127</u>

ANALYTE	CAS NO	RESULT pCi/g	2 $\sigma$ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	17.7	3.5	4.84	30.0		H

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

DATA SHEETS

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SUMMARY DATA SECTION

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Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>06/21/11</u>

EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

REVISION 1

7893-003

B2F055

DATA SHEET

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>S106011-03</u>	Client sample id <u>B2F055</u>	
Dept sample id <u>7893-003</u>	Location/Matrix <u>216-S-26 RV 3</u>	<u>SOLID</u>
Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 10:30</u>	<u>159 g</u>
% solids <u>93.8</u>	Custody/SAF No <u>F11-127-045</u>	<u>F11-127</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	8.97	3.0	4.46	30.0		H

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

DATA SHEETS

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SUMMARY DATA SECTION

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Lab id <u>EBRLNE</u>
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Report date <u>06/21/11</u>



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EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

7893-004

B2F056

DATA SHEET

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106011-04</u>	Client sample id <u>B2F056</u>	
Dept sample id <u>7893-004</u>	Location/Matrix <u>216-S-26 RV 4</u>	<u>SOLID</u>
Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 10:40</u>	<u>160 g</u>
% solids <u>92.0</u>	Custody/SAF No <u>F11-127-046</u>	<u>F11-127</u>

ANALYTE	CAS NO	RESULT	2 $\sigma$ ERR	MDA	RDL	QUALI-	
		pCi/g	(COUNT)	pCi/g	pCi/g	FIERS	TEST
Tritium	10028-17-8	29.2	4.5	5.77	30.0		H

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

Lab id EBRLINE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-DS  
Version 3.06  
Report date 06/21/11

REVISION 1

EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

7893-005

B2F057

DATA SHEET

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>S106011-05</u>	Client sample id <u>B2F057</u>	
Dept sample id <u>7893-005</u>	Location/Matrix <u>216-S-26 RV 5</u>	<u>SOLID</u>
Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 10:45</u>	<u>153 g</u>
% solids <u>94.3</u>	Custody/SAF No <u>F11-127-047</u>	<u>F11-127</u>

ANALYTE	CAS NO	RESULT pCi/g	2 $\sigma$ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	12.3	3.4	4.90	30.0		H

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

Lab id EBRINE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-DS  
Version 3.06  
Report date 06/21/11

EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

REVISION 1

7893-006

B2F058

DATA SHEET

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106011-06</u>	Client sample id <u>B2F058</u>	
Dept sample id <u>7893-006</u>	Location/Matrix <u>216-S-26 RV 5 Dup</u>	<u>SOLID</u>
Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 10:45</u>	<u>153 g</u>
% solids <u>94.4</u>	Custody/SAF No <u>F11-127-048</u>	<u>F11-127</u>

ANALYTE	CAS NO	RESULT pCi/g	2 $\sigma$ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	3.67	2.7	4.33	30.0	U	H

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

DATA SHEETS

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SUMMARY DATA SECTION

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Lab id <u>EBRINE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>06/21/11</u>

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EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

7893-007

B2F059

DATA SHEET

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract <u>No. 33677</u>	
Lab sample id <u>S106011-07</u>	Client sample id <u>B2F059</u>	
Dept sample id <u>7893-007</u>	Location/Matrix <u>216-S-26 RV 6</u>	<u>SOLID</u>
Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 10:52</u>	<u>134 g</u>
% solids <u>91.5</u>	Custody/SAF No <u>F11-127-049</u>	<u>F11-127</u>

ANALYTE	CAS NO	RESULT pCi/g	2σ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	5.36	3.0	4.70	30.0		H

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

REVISION 1

7893-008

B2F060

DATA SHEET

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106011-08</u>	Client sample id <u>B2F060</u>	
Dept sample id <u>7893-008</u>	Location/Matrix <u>216-S-26 RV 7</u>	<u>SOLID</u>
Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 11:10</u>	<u>168 g</u>
% solids <u>94.3</u>	Custody/SAF No <u>F11-127-050</u>	<u>F11-127</u>

ANALYTE	CAS NO	RESULT pCi/g	2 $\sigma$ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	13.3	3.9	5.71	30.0		H

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

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SUMMARY DATA SECTION

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Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>06/21/11</u>

# EBERLINE SERVICES / RICHMOND

REVISION 1

SAMPLE DELIVERY GROUP H4598

7893-009

B2F061

## DATA SHEET

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106011-09</u>	Client sample id <u>B2F061</u>	
Dept sample id <u>7893-009</u>	Location/Matrix <u>216-S-26 RV 8</u>	<u>SOLID</u>
Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 11:15</u>	<u>140 g</u>
% solids <u>89.5</u>	Custody/SAF No <u>F11-127-051</u>	<u>F11-127</u>

ANALYTE	CAS NO	RESULT pCi/g	2 $\sigma$ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	6.79	3.2	4.90	30.0		H

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

DATA SHEETS

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SUMMARY DATA SECTION

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Lab id EBRLNE

Protocol CHPRC

Version Ver 1.0

Form DVD-DS

Version 3.06

Report date 06/21/11

EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

REVISION 1

7893-010

B2F062

DATA SHEET

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106011-10</u>	Client sample id <u>B2F062</u>	
Dept sample id <u>7893-010</u>	Location/Matrix <u>200-W-148-PL RV 9</u>	<u>SOLID</u>
Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 11:25</u>	<u>164 g</u>
% solids <u>91.7</u>	Custody/SAF No <u>F11-127-052</u>	<u>F11-127</u>

ANALYTE	CAS NO	RESULT pCi/g	2 $\sigma$ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	2.70	2.9	4.68	30.0	U	H

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

DATA SHEETS

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SUMMARY DATA SECTION

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Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>06/21/11</u>

EBERLINE SERVICES / RICHMOND  
SAMPLE DELIVERY GROUP H4598

REVISION 1

7893-011

B2F063

DATA SHEET

SDG <u>7893</u>	Client/Case no <u>CHPRC</u>	SDG <u>H4598</u>
Contact <u>N. Joseph Verville</u>	Contract No. <u>33677</u>	
Lab sample id <u>S106011-11</u>	Client sample id <u>B2F063</u>	
Dept sample id <u>7893-011</u>	Location/Matrix <u>200-W-148-PL RV 10</u>	<u>SOLID</u>
Received <u>06/01/11</u>	Collected/Weight <u>05/25/11 11:25</u>	<u>150 g</u>
% solids <u>92.8</u>	Custody/SAF No <u>F11-127-053</u>	<u>F11-127</u>

ANALYTE	CAS NO	RESULT pCi/g	2 $\sigma$ ERR (COUNT)	MDA pCi/g	RDL pCi/g	QUALI- FIERS	TEST
Tritium	10028-17-8	8.66	3.2	4.79	30.0		H

ARRA Verification Sampling of the 216-S-26 Waste Site  
and 200-W-148-PL

DATA SHEETS

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SUMMARY DATA SECTION

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Lab id <u>EBRLNE</u>
Protocol <u>CHPRC</u>
Version <u>Ver 1.0</u>
Form <u>DVD-DS</u>
Version <u>3.06</u>
Report date <u>06/21/11</u>



## EBERLINE SERVICES/RICHMOND

REVISION 1

SAMPLE DELIVERY GROUP H4598

Test H Matrix SOLID  
SDG 7893  
Contact N. Joseph Verville

## LAB METHOD SUMMARY

TRITIUM IN SOLIDS

LIQUID SCINTILLATION COUNTING

Client CHPRC  
Contract No. 33677  
Contract SDG H4598

## RESULTS

LAB RAW SUF-

SAMPLE ID TEST FIX PLANCHET CLIENT SAMPLE ID Tritium

Preparation batch 7299-204

S106011-01	A1	7893-001	B2F053	U
S106011-02	A1	7893-002	B2F054	17.7
S106011-03	A1	7893-003	B2F055	8.97
S106011-04	A1	7893-004	B2F056	29.2
S106011-05	A1	7893-005	B2F057	12.3
S106011-06	A1	7893-006	B2F058	U
S106011-07	A1	7893-007	B2F059	5.36
S106011-08	A1	7893-008	B2F060	13.3
S106011-09	A1	7893-009	B2F061	6.79
S106011-10	A1	7893-010	B2F062	U
S106011-11	A1	7893-011	B2F063	8.66
S106011-15		7893-015	Lab Control Sample	ok
S106011-16		7893-016	Method Blank	U
S106011-17		7893-017	Duplicate (S106011-05)	ok

Nominal values and limits from method RDLs (pCi/g) 30.0

METHOD SUMMARIES

Page 1

SUMMARY DATA SECTION

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Lab id EBRLINE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-LMS  
Version 3.06  
Report date 06/21/11

## EBERLINE SERVICES/RICHMOND

REVISION 1

SAMPLE DELIVERY GROUP H4598

Test H Matrix SOLID

SDG 7893

Contact N. Joseph Verville

## LAB METHOD SUMMARY

TRITIUM IN SOLIDS

LIQUID SCINTILLATION COUNTING

Client CHPRC

Contract No. 33677

Contract SDG H4598

## METHOD PERFORMANCE

LAB	RAW	SUF-		MDA	ALIQ	PREP	DILU-	YIELD	EFF	COUNT	FWHM	DRIFT	DAYS		ANAL-	
SAMPLE ID	TEST	FIX	CLIENT SAMPLE ID	pCi/g	g	FAC	TION	%	%	min	keV	KeV	HELD	PREPARED	YZED	DETECTOR
Preparation batch 7299-204      2σ prep error 10.0 %      Reference Lab Notebook No. 7299 pg.204																
S106011-01	A1		B2F053	4.57	0.652			100		50			23	06/16/11	06/17	LSC-005
S106011-02	A1		B2F054	4.84	0.637			100		50			23	06/16/11	06/17	LSC-005
S106011-03	A1		B2F055	4.46	0.652			100		50			23	06/16/11	06/17	LSC-005
S106011-04	A1		B2F056	5.77	0.611			100		50			23	06/16/11	06/17	LSC-005
S106011-05	A1		B2F057	4.90	0.657			100		50			23	06/16/11	06/17	LSC-005
S106011-06	A1		B2F058	4.33	0.659			100		50			23	06/16/11	06/17	LSC-005
S106011-07	A1		B2F059	4.70	0.653			100		50			23	06/16/11	06/17	LSC-005
S106011-08	A1		B2F060	5.71	0.613			100		50			23	06/16/11	06/17	LSC-005
S106011-09	A1		B2F061	4.90	0.613			100		50			23	06/16/11	06/17	LSC-005
S106011-10	A1		B2F062	4.68	0.613			100		50			23	06/16/11	06/17	LSC-005
S106011-11	A1		B2F063	4.79	0.656			100		50			23	06/16/11	06/17	LSC-005
S106011-15			Lab Control Sample	4.34	0.500			100		50				06/16/11	06/17	LSC-005
S106011-16			Method Blank	4.68	0.500			100		50				06/16/11	06/17	LSC-005
S106011-17			Duplicate (S106011-05)	5.00	0.653			100		50			23	06/16/11	06/17	LSC-005
Nominal values and limits from method				30.0	0.500					25			180			

PROCEDURES REFERENCE TRITIUM\_COX\_LSC  
CP-251 Tritium/Carbon-14 Oxidation, rev 11

AVERAGES ± 2 SD MDA 4.83 ± 0.869  
FOR 14 SAMPLES YIELD 100 ± 0

METHOD SUMMARIES

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SUMMARY DATA SECTION

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Lab id EBRLINE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-LMS  
Version 3.06  
Report date 06/21/11

SAMPLE DELIVERY GROUP H4598

SDG 7893  
Contact N. Joseph Verville

## REPORT GUIDE

Client CHPRC  
Contract No. 33677  
Case no SDG H4598

## SAMPLE SUMMARY

The Sample and QC Summary Reports show all samples, including QC samples, reported in one Sample Delivery Group (SDG).

The Sample Summary Report fully identifies client samples and gives the corresponding lab sample identification. The QC Summary Report shows at the sample level how the lab organized the samples into batches and generated QC samples. The Preparation Batch and Method Summary Reports show this at the analysis level.

The following notes apply to these reports:

- \* LAB SAMPLE ID is the lab's primary identification for a sample.
- \* DEPARTMENT SAMPLE ID is an alternate lab id, for example one assigned by a radiochemistry department in a lab.
- \* CLIENT SAMPLE ID is the client's primary identification for a sample. It includes any sample preparation done by the client that is necessary to identify the sample.
- \* QC BATCH is a lab assigned code that groups samples to be processed and QCed together. These samples should have similar matrices.

QC BATCH is not necessarily the same as SDG, which reflects samples received and reported together.

- \* All Lab Control Samples, Method Blanks, Duplicates and Matrix Spikes are shown that QC any of the samples. Due to possible reanalyses, not all results for all these QC samples may be relevant to the SDG. The Lab Control Sample, Method Blank, Duplicate, Matrix Spike and Method Summary Reports detail these relationships.

## REPORT GUIDES

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## SUMMARY DATA SECTION

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Lab id EBRLNE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-RG  
Version 3.06  
Report date 06/21/11

SDG 7893Contact N. Joseph Verville

## REPORT GUIDE

Client CHPRCContract No. 33677Case no SDG H4598

## PREPARATION BATCH SUMMARY

The Preparation Batch Summary Report shows all preparation batches in one Sample Delivery Group (SDG) with information necessary to check the completeness and consistency of the SDG.

The following notes apply to this report:

- \* The preparation batches are shown in the same order as the Method Summary Reports are printed.
- \* Only analyses of planchets relevant to the SDG are included.
- \* Each preparation batch should have at least one Method Blank and LCS in it to validate client sample results.
- \* The QUALIFIERS shown are all qualifiers other than U, J, B, L and H that occur on any analysis in the preparation batch. The Method Summary Report has these qualifiers on a per sample basis.

These qualifiers should be reviewed as follows:

- X Some data has been manually entered or modified. Transcription errors are possible.
- P One or more results are 'preliminary'. The data is not ready for final reporting.
- 2 There were two or more results for one analyte on one planchet imported at one time. The results in DVD may not be the same as on the raw data sheets.

Other lab defined qualifiers may occur. In general, these should be addressed in the SDG narrative.

REPORT GUIDES

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SUMMARY DATA SECTION

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Lab id EBRLNEProtocol CHPRCVersion Ver 1.0Form DVD-RGVersion 3.06Report date 06/21/11

SDG 7893

Contact N. Joseph Verville

## REPORT GUIDE

Client CHPRCContract No. 33677Case no SDG H4598

## WORK SUMMARY

The Work Summary Report shows all samples, including QC samples, and all relevant analyses in one Sample Delivery Group (SDG). This report is often useful as supporting documentation for an invoice.

The following notes apply to this report:

- \* TEST is a code for the method used to measure associated analytes. Results and related information for each analyte are on the Data Sheet Report. In special cases, a test code used in the summary data section is not the same as in associated raw data. In this case, both codes are shown on the Work Summary.
- \* SUFFIX is the lab's code to distinguish multiple analyses (recounts, reworks, reanalyses) of a fraction of the sample. The suffix indicates which result is being reported. An empty suffix normally identifies the first attempt to analyze the sample.
- \* The LAB SAMPLE ID, TEST and SUFFIX uniquely identify all supporting data for a result. The Method Summary Report for each TEST has method performance data, such as yield, for each lab sample id and suffix and procedures used in the method.
- \* PLANCHET is an alternate lab identifier for work done for one test. It, combined with the TEST and SUFFIX, may be the best link to raw data.
- \* For QC samples, only analyses that directly QC some regular sample are shown. The Lab Control Sample, Method Blank, Duplicate, Matrix Spike and Method Summary Reports detail these relationships.
- \* The SAS (Special Analytical Services) Number is a client or lab assigned code that reflects special processing for samples, such as rapid turn around. Counts of tests done are lists by SAS number since it is likely to affect prices.

## REPORT GUIDES

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## SUMMARY DATA SECTION

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Lab id EBRLNEProtocol CHPRCVersion Ver 1.0Form DVD-RGVersion 3.06Report date 06/21/11

SDG 7893  
Contact N. Joseph Verville

## REPORT GUIDE

Client CHPRC  
Contract No. 33677  
Case no SDG H4598

## DATA SHEET

The Data Sheet Report shows all results and primary supporting information for one client sample or Method Blank. This report corresponds to both the CLP Inorganics and Organics Data Sheet.

The following notes apply to this report:

- \* TEST is a code for the method used to measure an analyte. If the TEST is empty, no data is available; the analyte was not analyzed for.
- \* The LAB SAMPLE ID and TEST uniquely identify work within the Summary Data Section of a Data Package. The Work Summary and Method Summary Reports further identify raw data that underlies this work.

The Method Summary Report for each TEST has method performance data, such as yield, for each Lab Sample ID and a list of procedures used in the method.

- \* ERRORS can be labeled TOTAL or COUNT. TOTAL implies a preparation (non-counting method) error has been added, as square root of sum of squares, to the counting error denoted by COUNT. The preparation errors, which may vary by preparation batch, are shown on the Method Summary Report.
- \* A RESULT can be 'N.R.' (Not Reported). This means the lab did this work but chooses not to report it now, possibly because it was reported at another time.
- \* When reporting a Method Blank, a RESULT can be 'N.A.' (Not Applicable). This means there is no reported client sample work in the same preparation batch as the Blank's result. This is likely to occur when the Method Blank is associated with reanalyses of selected work for a few samples in the SDG.

The following qualifiers are defined by the DVD system:

U The RESULT is less than the MDA (Minimum Detectable Activity).

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## SUMMARY DATA SECTION

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Lab id EBRLNE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-RG  
Version 3.06  
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SDG 7893

Contact N. Joseph Verville

GUIDE, cont.

Client CHPRCContract No. 33677Case no SDG\_H4598

## DATA SHEET

If the MDA is blank, the ERROR is used as the limit.

- J The RESULT is less than the RDL (Required Detection Limit) and no U qualifier is assigned.
- B A Method Blank associated with this sample had a result without a U flag and, after correcting for possibly different aliquots, that result is greater than or equal to the MDA for this sample.

Normally, B is not assigned if U is. When method blank subtraction is shown on this report, B flags are assigned based on the unsubtracted values while U's are assigned based on the subtracted ones. Both flags can be assigned in this case.

For each sample result, all Method Blank results in the same preparation batch are compared. The Method Summary Report documents this and other QC relationships.

- L Some Lab Control Sample that QC's this sample had a low recovery. The lab can disable assignment of this qualifier.
- H Similar to 'L' except the recovery was high.
- P The RESULT is 'preliminary'.
- X Some data necessary to compute the RESULT, ERROR or MDA was manually entered or modified.
- 2 There were two or more results available for this analyte. The reported result may not be the same as in the raw data.

Other qualifiers are lab defined. Definitions should be in the SDG narrative.

The following values are underlined to indicate possible problems:

- \* An MDA is underlined if it is bigger than its RDL.

REPORT GUIDES

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SUMMARY DATA SECTION

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Lab id EBRLNEProtocol CHPRCVersion Ver 1.0Form DVD-RGVersion 3.06Report date 06/21/11

SDG 7893

Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC

Contract No. 33677

Case no SDG H4598

DATA SHEET

- \* An ERROR is underlined if the 1.645 sigma counting error is bigger than both the MDA and the RESULT, implying that the MDA may not be a good estimate of the 'real' minimum detectable activity.
- \* A negative RESULT is underlined if it is less than the negative of its 2 sigma counting ERROR.
- \* When reporting a Method Blank, a RESULT is underlined if greater than its MDA. If the MDA is blank, the 2 sigma counting error is used in the comparison.

REPORT GUIDES

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SUMMARY DATA SECTION

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Lab id EBRLNE

Protocol CHPRC

Version Ver 1.0

Form DVD-RG

Version 3.06

Report date 06/21/11



SDG 7893

Contact N. Joseph Verville

## REPORT GUIDE

Client CHPRCContract No. 33677Case no SDG\_H4598

## LAB CONTROL SAMPLE

The Lab Control Sample Report shows all results, recoveries and primary supporting information for one Lab Control Sample.

The following notes apply to this report:

- \* All fields in common with the Data Sheet Report have similar usage. Refer to its Report Guide for details.
- \* An amount ADDED is the lab's value for the actual amount spiked into this sample with its ERROR an estimate of the error of this amount.

An amount added is underlined if its ratio to the corresponding RDL is outside protocol specified limits.

- \* REC (Recovery) is RESULT divided by ADDED expressed as a percent.
- \* The first, computed limits for the recovery reflect:
  1. The error of RESULT, including that introduced by rounding the result prior to printing.

If the limits are labeled (TOTAL), they include preparation error in the result. If labeled (COUNT), they do not.
  2. The error of ADDED.
  3. A lab specified, per analyte bias. The bias changes the center of the computed limits.
- \* The second limits are protocol defined upper and lower QC limits for the recovery.
- \* The recovery is underlined if it is outside either of these ranges.

## REPORT GUIDES

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## SUMMARY DATA SECTION

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Lab id EBRLNEProtocol CHPRCVersion Ver 1.0Form DVD-RGVersion 3.06Report date 06/21/11

SDG 7893  
Contact N. Joseph Verville

## REPORT GUIDE

Client CHPRC  
Contract No. 33677  
Case no SDG H4598

## DUPLICATE

The Duplicate Report shows all results, differences and primary supporting information for one Duplicate and associated Original sample.

The following notes apply to this report:

- \* All fields in common with the Data Sheet Report have similar usage. This applies both to the Duplicate and Original sample data. Refer to the Data Sheet Report Guide for details.

If the Duplicate has data for a TEST and the lab did not do this test to the Original, the Original's RESULTS are underlined.

- \* The RPD (Relative Percent Difference) is the absolute value of the difference of the RESULTS divided by their average expressed as a percent.

If both RESULTS are less than their MDAs, no RPD is computed and a '-' is printed.

For an analyte, if the lab did work for both samples but has data for only one, the MDA from the sample with data is used as the other's result in the RPD.

- \* The first, computed limit is the sum, as square root of sum of squares, of the errors of the results divided by the average result as a percent, hence the relative error of the difference rather than the error of the relative difference. The errors include those introduced by rounding the RESULTS prior to printing.

If this limit is labeled TOT, it includes the preparation error in the RESULTS. If labeled CNT, it does not.

This value reported for this limit is at most 999.

- \* The second limit for the RPD is the larger of:

1. A fixed percentage specified in the protocol.

## REPORT GUIDES

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## SUMMARY DATA SECTION

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Lab id EBRLNE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-RG  
Version 3.06  
Report date 06/21/11

SDG 7893Contact N. Joseph Verville

GUIDE, cont.

Client CHPRCContract No. 33677Case no SDG H4598

## DUPLICATE

2. A protocol factor (typically 2) times the average MDA as a percent of the average result. This limit applies when the results are close to the MDAs.

- \* The RPD is underlined if it is greater than either limit.
- \* If specified by the lab, the second limit column is replaced by the Difference Error Ratio (DER), which is the absolute value of the difference of the results divided by the quadratic sum of their one sigma errors, the same errors as used in the first limit.

Except for differences due to rounding, the DER is the same as the RPD divided by the first RPD limit with the limit scaled to 1 sigma.

- \* The DER is underlined if it is greater than the sigma factor, typically 2 or 3, shown in the header for the first RPD limit.

## REPORT GUIDES

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## SUMMARY DATA SECTION

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Lab id EBRLNEProtocol CHPRCVersion Ver 1.0Form DVD-RGVersion 3.06Report date 06/21/11

SDG 7893  
Contact N. Joseph Verville

## REPORT GUIDE

Client CHPRC  
Contract No. 33677  
Case no SDG\_H4598

## MATRIX SPIKE

The Matrix Spike Report shows all results, recoveries and primary supporting information for one Matrix Spike and associated Original sample.

The following notes apply to this report:

- \* All fields in common with the Data Sheet Report have similar usage. This applies both to the Spiked and Original sample data. Refer to the Data Sheet Report Guide for details.

If the Spike has data for a TEST and the lab did not do this test to the Original, the Original's RESULTS are underlined.

- \* An amount ADDED is the lab's value for the actual amount spiked into the Spike sample with its ERROR an estimate of the error of this amount.

An amount is underlined if its ratio to the corresponding RDL is outside protocol specified limits.

- \* REC (Recovery) is the Spike RESULT minus the Original RESULT divided by ADDED expressed as a percent.

- \* The first, computed limits for the recovery reflect:

1. The errors of the two RESULTS, including those introduced by rounding them prior to printing.

If the limits are labeled (TOTAL), they include preparation error in the result. If labeled (COUNT), they do not.

2. The error of ADDED.

3. A lab specified, per analyte bias. The bias changes the center of the computed limits.

- \* The second limits are protocol defined upper and lower QC limits

## REPORT GUIDES

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## SUMMARY DATA SECTION

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Lab id EBRLNE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-RG  
Version 3.06  
Report date 06/21/11

SDG 7893

Contact N. Joseph Verville

GUIDE, cont.

Client CHPRCContract No. 33677Case no SDG\_H4598

## MATRIX SPIKE

for the recovery.

These limits are left blank if the Original RESULT is more than a protocol defined factor (typically 4) times ADDED. This is a way of accounting for that when the spike is small compared to the amount in the original sample, the recovery is unreliable.

- \* The recovery is underlined (out of spec) if it is outside either of these ranges.

REPORT GUIDES

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SUMMARY DATA SECTION

Page 34

Lab id EBRLNEProtocol CHPRCVersion Ver 1.0Form DVD-RGVersion 3.06Report date 06/21/11

SDG 7893  
Contact N. Joseph Verville

## REPORT GUIDE

Client CHPRC  
Contract No. 33677  
Case no SDG H4598

## METHOD SUMMARY

The Method Summary Report has two tables. One shows up to five results measured using one method. The other has performance data for the method. There is one report for each TEST, as used on the Data Sheet Report.

The following notes apply to this report:

- \* Each table is subdivided into sections, one for each preparation batch. A preparation batch is a group of aliquots prepared at roughly the same time in one work area of the lab using the same method.

There should be Lab Control Sample and Method Blank results in each preparation batch since this close correspondence makes the QC meaningful. Depending on lab policy, Duplicates need not occur in each batch since they QC sample dependencies such as matrix effects.

- \* The RAW TEST column shows the test code used in the raw data to identify a particular analysis if it is different than the test code in the header of the report. This occurs in special cases due to method specific details about how the lab labels work.

The Lab Sample or Planchet ID combined with the (Raw) Test Code and Suffix uniquely identify the raw data for each analysis.

- \* If a result is less than both its MDA and RDL, it is replaced by just 'U' on this report. If it is greater than or equal to the RDL but less than the MDA, the result is shown with a 'U' flag.

The J and X flags are as on the data sheet.

- \* Non-U results for Method Blanks are underlined to indicate possible contamination of other samples in the preparation batch. The Method Blank Report has supporting data.
- \* Lab Control Sample and Matrix Spike results are shown as: ok, No data, LOW or HIGH, with the last two underlined. 'No data'

## REPORT GUIDES

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## SUMMARY DATA SECTION

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Lab id EBRLNE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-RG  
Version 3.06  
Report date 06/21/11

SDG 7893  
Contact N. Joseph Verville

GUIDE, cont.

Client CHPRC  
Contract No. 33677  
Case no SDG\_H4598

## METHOD SUMMARY

means no amount ADDED was specified. 'LOW' and 'HIGH' correspond to when the recovery is underlined on the Lab Control Sample or Matrix Spike Report. See these reports for supporting data.

- \* Duplicate sample results are shown as: ok, No data, or OUT, with the last two underlined. 'No data' means there was no original sample data found for this duplicate. 'OUT' corresponds to when the RPD is underlined on the Duplicate Report. See this report for supporting data.
  - \* If the MDA column is labeled 'MAX MDA', there was more than one result measured by the reported method and the MDA shown is the largest MDA. If not all these results have the same RDL, the MAX MDA reflects only those results with RDL equal to the smallest one.
- MDAs are underlined if greater than the printed RDL.
- \* Aliquots are underlined if less than the nominal value specified for the method.
  - \* Preparation factors are underlined if greater than the nominal value specified for the method.
  - \* Dilution factors are underlined if greater than the nominal value specified for the method.
  - \* Residues are underlined if outside the range specified for the method. Residues are not printed if yields are.
  - \* Yields, which may be gravimetric, radiometric or some type of recovery depending on the method, are underlined if outside the range specified for the method.
  - \* Efficiencies are underlined if outside the range specified for the method. Efficiencies are detector and geometry dependent so this test is only approximate.

REPORT GUIDES

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SUMMARY DATA SECTION

Page 36

Lab id EBRINE  
Protocol CHPRC  
Version Ver 1.0  
Form DVD-RG  
Version 3.06  
Report date 06/21/11

SDG 7893

Contact N. Joseph Verville

GUIDE, cont.

Client CHPRCContract No. 33677Case no SDG H4598

## METHOD SUMMARY

- \* Count times are underlined if less than the nominal value specified for the method.
- \* Resolutions (as FWHM; Full Width at Half Max) are underlined if greater than the method specified limit.
- \* Tracer drifts are underlined if their absolute values are greater than the method specified limit. Tracer drifts are not printed if percent moistures are.
- \* Days Held are underlined if greater than the holding time specified in the protocol.
- \* Analysis dates are underlined if before their planchet's preparation date or, if a limit is specified, too far after it.

For some methods, ratios as percentages and error estimates for them are computed for pairs of results. A ratio column header like '1+3' means the ratio of the first result column and the third result column.

Ratios are not computed for Lab Control Sample, Method Blank or Matrix Spike results since their matrices are not necessarily similar to client samples'.

The error estimate for a ratio of results from one planchet reflects only counting errors since other errors should be correlated. For a ratio involving different planchets, if QC limits are computed based on total errors, the error for the ratio allows for the preparation errors for the planchets.

The ratio is underlined (out of spec) if the absolute value of its difference from the nominal value is greater than its error estimate. If no nominal value is specified, this test is not done.

For Gross Alpha or Gross Beta results, there may be a column showing the sum of other Alpha or Beta emitters. This sum includes all relevant

## REPORT GUIDES

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## SUMMARY DATA SECTION

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Lab id EBRLNEProtocol CHPRCVersion Ver 1.0Form DVD-RGVersion 3.06Report date 06/21/11



SDG 7893

Contact N. Joseph Verville

GUIDE, cont.

Client CHPRCContract No. 33677Case no SDG\_H4598

## METHOD SUMMARY

results in the DVD database, whether reported or not. Results in the sum are weighted by a particles/decay value specified by the lab for each relevant analyte. Results less than their MDA are not included. No sums are computed for Lab Control, Method Blank or Matrix Spike samples since their various planchets may not be physically related.

If a ratio of total isotopic to Gross Alpha or Beta is shown, the error for the ratio reflects both the error in the Gross result and the sum, as square root of sum of squares, of the errors in the isotopic results.

For total elemental uranium or thorium results, there may be a column showing the total weight computed from associated isotopic results. Ignoring results less than their MDAs, this is a weighted sum of the isotopic results. The weights depend on the molecular weight and half-life of each isotope so as to convert activities (decays) to weight (atoms).

If a ratio of total computed to measured elemental uranium or thorium is shown, the error for the ratio reflects the errors in all the measurements.

REPORT GUIDES

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SUMMARY DATA SECTION

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Lab id EBRLNEProtocol CHPRCVersion Ver 1.0Form DVD-RGVersion 3.06Report date 06/21/11

REVISION 1

RECHECK, RECOUNT, OR REANALYSIS ORDER

06/15/2011

**Order Number: 110614EBRLNE-R7203**

Eberline Services  
2030 Wright Ave, P. O. Box 4040  
Richmond, CA 94804-0040

Sample Delivery Group: H4598

Sample(s):

Method Name: TRITIUM\_COX\_LSC

Sample #: B2F053      Sample Date: 5/25/11 10:20 am      SAF #: F11-127  
 Lab Sample ID   RDR Action Start Date   Constituent      Action      TAT (Hardcopy/EDD)  
 S106011-01      6/15/2011 4:08 pm      Tritium      REANALYZE      15 Days / 15 Days  
 Special Instructions: Please provide prelim data ASAP. Also, provide an RDL of 30 pCi/g. For any questions, please contact Roy Bauer.

Sample #: B2F054      Sample Date: 5/25/11 10:30 am      SAF #: F11-127  
 Lab Sample ID   RDR Action Start Date   Constituent      Action      TAT (Hardcopy/EDD)  
 S106011-02      6/15/2011 4:08 pm      Tritium      REANALYZE      15 Days / 15 Days  
 Special Instructions: Please provide prelim data ASAP. Also, provide an RDL of 30 pCi/g. For any questions, please contact Roy Bauer.

Sample #: B2F055      Sample Date: 5/25/11 10:30 am      SAF #: F11-127  
 Lab Sample ID   RDR Action Start Date   Constituent      Action      TAT (Hardcopy/EDD)  
 S106011-03      6/15/2011 4:08 pm      Tritium      REANALYZE      15 Days / 15 Days  
 Special Instructions: Please provide prelim data ASAP. Also, provide an RDL of 30 pCi/g. For any questions, please contact Roy Bauer.

Sample #: B2F056      Sample Date: 5/25/11 10:40 am      SAF #: F11-127  
 Lab Sample ID   RDR Action Start Date   Constituent      Action      TAT (Hardcopy/EDD)  
 S106011-04      6/15/2011 4:08 pm      Tritium      REANALYZE      15 Days / 15 Days  
 Special Instructions: Please provide prelim data ASAP. Also, provide an RDL of 30 pCi/g. For any questions, please contact Roy Bauer.

Sample #: B2F057      Sample Date: 5/25/11 10:45 am      SAF #: F11-127  
 Lab Sample ID   RDR Action Start Date   Constituent      Action      TAT (Hardcopy/EDD)  
 S106011-05      6/15/2011 4:08 pm      Tritium      REANALYZE      15 Days / 15 Days  
 Special Instructions: Please provide prelim data ASAP. Also, provide an RDL of 30 pCi/g. For any questions, please contact Roy Bauer.

Sample #: B2F058      Sample Date: 5/25/11 10:45 am      SAF #: F11-127  
 Lab Sample ID   RDR Action Start Date   Constituent      Action      TAT (Hardcopy/EDD)

Deliver Report Results to: CH2M Hill Plateau Remediation Company  
 P.O. Box 1600  
 Richland, WA 99352-1234  
 C/O Mr. Mike Neely

REVISION 1

RECHECK, RECOUNT, OR REANALYSIS ORDER

06/15/2011

Sample #: B2F058                      Sample Date: 5/25/11 10:45 am    SAF #: F11-127

Lab Sample ID	RDR Action Start Date	Constituent	Action	TAT (Hardcopy/EDD)
S106011-06	6/15/2011 4:08 pm	Tritium	REANALYZE	15 Days / 15 Days

Special Instructions: Please provide prelim data ASAP. Also, provide an RDL of 30 pCi/g. For any questions, please contact Roy Bauer.

Sample #: B2F059                      Sample Date: 5/25/11 10:52 am    SAF #: F11-127

Lab Sample ID	RDR Action Start Date	Constituent	Action	TAT (Hardcopy/EDD)
S106011-07	6/15/2011 4:08 pm	Tritium	REANALYZE	15 Days / 15 Days

Special Instructions: Please provide prelim data ASAP. Also, provide an RDL of 30 pCi/g. For any questions, please contact Roy Bauer.

Sample #: B2F060                      Sample Date: 5/25/11 11:10 am    SAF #: F11-127

Lab Sample ID	RDR Action Start Date	Constituent	Action	TAT (Hardcopy/EDD)
S106011-08	6/15/2011 4:08 pm	Tritium	REANALYZE	15 Days / 15 Days

Special Instructions: Please provide prelim data ASAP. Also, provide an RDL of 30 pCi/g. For any questions, please contact Roy Bauer.

Sample #: B2F061                      Sample Date: 5/25/11 11:15 am    SAF #: F11-127

Lab Sample ID	RDR Action Start Date	Constituent	Action	TAT (Hardcopy/EDD)
S106011-09	6/15/2011 4:08 pm	Tritium	REANALYZE	15 Days / 15 Days

Special Instructions: Please provide prelim data ASAP. Also, provide an RDL of 30 pCi/g. For any questions, please contact Roy Bauer.

Sample #: B2F062                      Sample Date: 5/25/11 11:25 am    SAF #: F11-127

Lab Sample ID	RDR Action Start Date	Constituent	Action	TAT (Hardcopy/EDD)
S106011-10	6/15/2011 4:08 pm	Tritium	REANALYZE	15 Days / 15 Days

Special Instructions: Please provide prelim data ASAP. Also, provide an RDL of 30 pCi/g. For any questions, please contact Roy Bauer.

Sample #: B2F063                      Sample Date: 5/25/11 11:25 am    SAF #: F11-127

Lab Sample ID	RDR Action Start Date	Constituent	Action	TAT (Hardcopy/EDD)
S106011-11	6/15/2011 4:08 pm	Tritium	REANALYZE	15 Days / 15 Days

Special Instructions: Please provide prelim data ASAP. Also, provide an RDL of 30 pCi/g. For any questions, please contact Roy Bauer.

Deliver Report Results to: CH2M Hill Plateau Remediation Company  
P.O. Box 1600  
Richland, WA 99352-1234  
C/O Mr. Mike Neely

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F11-127-043	PAGE 1 OF 1
COLLECTOR <i>Park</i>	COMPANY CONTACT BAUER, RG	TELEPHONE NO. 373-3931	PROJECT COORDINATOR BAUER, RG		PRICE CODE 8C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 216-5-26 RV 1	PROJECT DESIGNATION ARRA Verification Sampling of the 216-5-26 Waste Site and 200-W-148-PL	SAF NO. F11-127		AIR QUALITY <input type="checkbox"/>	28 <i>du</i>	
ICE CHEST NO. <i>GWS099</i>	FIELD LOGBOOK NO. <i>HNF-2-507-17</i>	ACTUAL SAMPLE DEPTH <i>6-12"</i>	COA 302222ES10	METHOD OF SHIPMENT FEDERAL EXPRESS		
SHIPPED TO Eberline Services	OFFSITE PROPERTY NO. <i>SEE FILE</i> <i>AD-518/11</i> <i>2687</i>	BILL OF LADING/AIR BILL NO. <i>SEE FILE</i> <i>7971 5300 7698</i> <i>2W-518/11</i>				
MATRIX*	DOSSIER E SAMPLE HAZARDS / REMARKS					

MATRIX*		POSSIBLE SAMPLE HAZARDS/ REMARKS		PRESERVATION	
A=Air	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	None		6 Months	
DL=Drum		HOLDING TIME			
Liquids		TYPE OF CONTAINER		G/P	
DS=Drum		NO. OF CONTAINER(S)		1	
Solids		VOLUME		120mL	
L=Liquid		SAMPLE ANALYSIS		Tritium - H3 (Tritium);	
O=Oil		SPECIAL HANDLING AND/OR STORAGE			
S=Soil		RADIOACTIVE TIE TO: B2F011			
SE=Sediment					
T=Tissue					
V=Vegetation					
W=Water					
W1=Wipe					
X=Other					
SAMPLE NO.		MATRIX*		SAMPLE DATE	
B2F053		SOIL		5/25/11 1020	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	TITLE	
LABORATORY SECTION	RECEIVED BY		DATE/TIME		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD		DISPOSED BY		
				DATE/TIME	

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F11-127-044	PAGE 1 OF 1
COLLECTOR <i>Goods</i>	COMPANY CONTACT BAUER, RG	TELEPHONE NO. 373-3931	PROJECT COORDINATOR BAUER, RG	PRICE CODE 8C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 216-S-26 RV 2	PROJECT DESIGNATION ARRA Verification Sampling of the 216-S-26 Waste Site and 200-W-148-PL		SAF NO. F11-127	AIR QUALITY <input type="checkbox"/>	23 May
ICE CHEST NO. GWS-099	FIELD LOGBOOK NO. HNF-P-507-19	ACTUAL SAMPLE DEPTH 6-12'	COA 302222ES10	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO Eberline Services	OFFSITE PROPERTY NO. 2687	BILL OF LADING/AIR BILL NO. SHEP 797153007698			
MATRIX* A=Air DL=Drum L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION None	HOLDING TIME 6 Months	TYPE OF CONTAINER G/P	NO. OF CONTAINER(S) 1
SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B2F012		VOLUME 120mL	Tritium - H3 (Tritium);		
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B2F054	SOIL	5-25-11	1030	X	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Goods</i>	DATE/TIME 5-25-11	RECEIVED BY/STORED IN SSU	DATE/TIME 5-25-11	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.	
RELINQUISHED BY/REMOVED FROM D. R. Williamson	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN D. R. Williamson	DATE/TIME MAY 31 2011		
RELINQUISHED BY/REMOVED FROM <i>for R</i>	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN FEDEX	DATE/TIME MAY 31 2011		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY			TITLE	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD			DISPOSED BY	
			DATE/TIME		

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F11-127-045	PAGE 1 OF 1
COLLECTOR <i>Sparks</i>	COMPANY CONTACT BAUER, RG	TELEPHONE NO. 373-3931	PROJECT COORDINATOR BAUER, RG	PRICE CODE 8C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 216-S-26 RV 3	PROJECT DESIGNATION ARRA Verification Sampling of the 216-S-26 Waste Site and 200-W-148-PL		SAF NO. F11-127	AIR QUALITY <input type="checkbox"/>	28.00
ICE CHEST NO. GWS-099	FIELD LOGBOOK NO. HMF-N-507-19	ACTUAL SAMPLE DEPTH 6-12"	COA 302222ES10	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO Eberline Services		OFFSITE PROPERTY NO. 2687	BILL OF LADING/AIR BILL NO. SEE PR 7971 5300 7698 5/31/11		
MATRIX* A=Air DL=Drum L=Liquids DS=Drum S=Solids O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION None		
	HOLDING TIME 6 Months				
	TYPE OF CONTAINER G/P				
	NO. OF CONTAINER(S) 1				
	VOLUME 120ml				
	SAMPLE ANALYSIS Tritium - H3 (Tritium);				
SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B2F013					
SAMPLE NO. B2F055	MATRIX* SOIL	SAMPLE DATE 5-25-11	SAMPLE TIME 1030	X	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>D Sparks</i>	DATE/TIME 5-25-11 1445	RECEIVED BY/STORED IN <i>SSU-1</i>	DATE/TIME 5-25-11 1445	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. REVISION 1	
RELINQUISHED BY/REMOVED FROM <i>SSU-1</i>	DATE/TIME MAY 31 2011 1000	RECEIVED BY/STORED IN <i>D. R. Williamson</i>	DATE/TIME MAY 31 2011 1000		
RELINQUISHED BY/REMOVED FROM <i>D. R. Williamson</i>	DATE/TIME MAY 31 2011 1000	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000		
RELINQUISHED BY/REMOVED FROM <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000		
RELINQUISHED BY/REMOVED FROM <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000		
RELINQUISHED BY/REMOVED FROM <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000		
RELINQUISHED BY/REMOVED FROM <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000		
RELINQUISHED BY/REMOVED FROM <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000		
RELINQUISHED BY/REMOVED FROM <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME MAY 31 2011 1000		
LABORATORY SECTION	RECEIVED BY			TITLE	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD			DISPOSED BY	

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F11-127-046	PAGE 1 OF 1
COLLECTOR <i>Sacks</i>	COMPANY CONTACT BAUER, RG	TELEPHONE NO. 373-3931	PROJECT COORDINATOR BAUER, RG	PRICE CODE 8C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 216-S-26 RV 4	PROJECT DESIGNATION ARRA Verification Sampling of the 216-S-26 Waste Site and 200-W-148-PL		SAF NO. F11-127	AIR QUALITY <input type="checkbox"/>	28000
ICE CHEST NO. GWS099	FIELD LOGBOOK NO. HNE-A-507-17	ACTUAL SAMPLE DEPTH 6-12"	COA 302222ES10	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO Eberline Services	OFFSITE PROPERTY NO. 2687	BILL OF LADING/AIR BILL NO. SEE PR 79715300 7698			

MATRIX* A=Air DL=Drum L=Liquid DS=Drum S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)		PRESERVATION None	
			HOLDING TIME 6 Months	
			TYPE OF CONTAINER G/P	
			NO. OF CONTAINER(S) 1	
			VOLUME 120mL	
SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B2F014		SAMPLE ANALYSIS Tritium - H3 (Tritium);		
SAMPLE NO. B2F056	MATRIX* SOIL	SAMPLE DATE 5-25-11	SAMPLE TIME 1040	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Sacks</i>	DATE/TIME 5/25/11	RECEIVED BY/STORED IN D. R. Williamson	DATE/TIME 5-25-11	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.	
RELINQUISHED BY/REMOVED FROM SSU-1	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN CHPRC	DATE/TIME MAY 31 2011		
RELINQUISHED BY/REMOVED FROM D. R. Williamson	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN FEDEX	DATE/TIME MAY 31 2011		
RELINQUISHED BY/REMOVED FROM <i>For</i>	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN FEDEX	DATE/TIME MAY 31 2011		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY			TITLE	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD			DISPOSED BY	
			DATE/TIME		





CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F11-127-048	PAGE 1 OF 1												
COLLECTOR <i>Sparks</i>	COMPANY CONTACT BAUER, RG	TELEPHONE NO. 373-3931	PROJECT COORDINATOR BAUER, RG	PRICE CODE 8C	DATA TURNAROUND 15 Days / 15 Days												
SAMPLING LOCATION 216-S-26 RV 5 Dup	PROJECT DESIGNATION ARRA Verification Sampling of the 216-S-26 Waste Site and 200-W-148-PL		SAF NO. F11-127	AIR QUALITY <input type="checkbox"/>	28 <i>000</i>												
ICE CHEST NO. <i>GWS-099</i>	FIELD LOGBOOK NO. <i>HWF-W-507-19</i>	ACTUAL SAMPLE DEPTH <i>6-12 1'</i>	COA 302222ES10	METHOD OF SHIPMENT FEDERAL EXPRESS													
SHIPPED TO Eberline Services		OFFSITE PROPERTY NO. <i>2687</i>	BILL OF LADING/AIR BILL NO. <i>7971 5300 7698</i>														
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	<table border="1"> <tr> <td>POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)</td> <td>PRESERVATION None</td> </tr> <tr> <td></td> <td>HOLDING TIME 6 Months</td> </tr> <tr> <td></td> <td>TYPE OF CONTAINER G/P</td> </tr> <tr> <td></td> <td>NO. OF CONTAINER(S) 1</td> </tr> <tr> <td></td> <td>VOLUME 120mL</td> </tr> <tr> <td></td> <td>SAMPLE ANALYSIS Tritium - H3 (Tritium);</td> </tr> </table>					POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION None		HOLDING TIME 6 Months		TYPE OF CONTAINER G/P		NO. OF CONTAINER(S) 1		VOLUME 120mL		SAMPLE ANALYSIS Tritium - H3 (Tritium);
POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION None																
	HOLDING TIME 6 Months																
	TYPE OF CONTAINER G/P																
	NO. OF CONTAINER(S) 1																
	VOLUME 120mL																
	SAMPLE ANALYSIS Tritium - H3 (Tritium);																
SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B2F016																	
SAMPLE NO. B2F058	MATRIX* SOIL	SAMPLE DATE <i>5-25-11</i>	SAMPLE TIME <i>1045</i>														

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>D.S. Sparks</i>	DATE/TIME <i>5-25-11 11445</i>	RECEIVED BY/STORED IN <i>SSU 1</i>	DATE/TIME <i>5-25-11 11445</i>	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GK1 applies to this SAF.	
RELINQUISHED BY/REMOVED FROM <i>D.S. Sparks</i>	DATE/TIME <i>5-25-11 11445</i>	RECEIVED BY/STORED IN <i>D. R. Williamson</i>	DATE/TIME <i>MAY 31 2011</i>		
RELINQUISHED BY/REMOVED FROM <i>D. R. Williamson</i>	DATE/TIME <i>MAY 31 2011</i>	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME <i>MAY 31 2011</i>		
RELINQUISHED BY/REMOVED FROM <i>D. R. Williamson</i>	DATE/TIME <i>MAY 31 2011</i>	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME <i>MAY 31 2011</i>		
RELINQUISHED BY/REMOVED FROM <i>D. R. Williamson</i>	DATE/TIME <i>MAY 31 2011</i>	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME <i>MAY 31 2011</i>		
RELINQUISHED BY/REMOVED FROM <i>D. R. Williamson</i>	DATE/TIME <i>MAY 31 2011</i>	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME <i>MAY 31 2011</i>		
RELINQUISHED BY/REMOVED FROM <i>D. R. Williamson</i>	DATE/TIME <i>MAY 31 2011</i>	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME <i>MAY 31 2011</i>		
RELINQUISHED BY/REMOVED FROM <i>D. R. Williamson</i>	DATE/TIME <i>MAY 31 2011</i>	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME <i>MAY 31 2011</i>		
RELINQUISHED BY/REMOVED FROM <i>D. R. Williamson</i>	DATE/TIME <i>MAY 31 2011</i>	RECEIVED BY/STORED IN <i>FEDEX</i>	DATE/TIME <i>MAY 31 2011</i>		
LABORATORY SECTION	TITLE			DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD			DATE/TIME	

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F11-127-049	PAGE 1 OF 1
COLLECTOR	sparks	COMPANY CONTACT	BAUER, RG	TELEPHONE NO.	373-3931	PROJECT COORDINATOR	BAUER, RG
SAMPLING LOCATION	216-S-26 RV 6	PROJECT DESIGNATION	ARRA Verification Sampling of the 216-S-26 Waste Site and 200-W-148-PL				
ICE CHEST NO.	CWS099	FIELD LOGBOOK NO.	HNF-N-507-19	ACTUAL SAMPLE DEPTH	6'-12.1'	SAF NO.	F11-127
SHIPPED TO		OFFSITE PROPERTY NO.	SEE PAGE 2607				
Eberline Services		PRESERVATION	None				
MATRIX*		HOLDING TIME	6 Months				
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water W1=Wipe X=Other		TYPE OF CONTAINER	G/P				
SPECIAL HANDLING AND/OR STORAGE		NO. OF CONTAINER(S)	1				
RADIOACTIVE TIE TO: BZF017		VOLUME	120mL				
		SAMPLE ANALYSIS	Tritium - H3 (Trilium);				
SAMPLE NO.		SAMPLE DATE	3-25-11	SAMPLE TIME	1057		
BZF059	SOIL						

[illegible]

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F11-127-050	PAGE 1 OF 1
COLLECTOR <i>Sparks</i>	COMPANY CONTACT BAUER, RG	TELEPHONE NO. 373-3931	PROJECT COORDINATOR BAUER, RG	PRICE CODE 8C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 216-S-26 RV 7	PROJECT DESIGNATION ARRA Verification Sampling of the 216-S-26 Waste Site and 200-W-148-PL		SAF NO. F11-127	AIR QUALITY <input type="checkbox"/>	28 <i>du</i>
ICE CHEST NO. CWS099	FIELD LOGBOOK NO. HWFN-507-19	ACTUAL SAMPLE DEPTH 6-12"	COA 302222ES10	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL
SHIPPED TO Eberline Services	OFFSITE PROPERTY NO. 2687		BILL OF LADING/AIR BILL NO. <i>SEE PM</i>		79715300 7698
MATRIX* A=Air DL=Drum L=Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	None			
		HOLDING TIME 6 Months			
		TYPE OF CONTAINER G/P			
		NO. OF CONTAINER(S) 1			
		VOLUME 120mL			
		SAMPLE ANALYSIS Tritium - H3 (Tritium);			
	SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B2F018				
SAMPLE NO. B2F060	MATRIX* SOIL	SAMPLE DATE 5-25-11	SAMPLE TIME 1110		

CHAIN OF POSSESSION		SIGN/PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Sparks</i>	DATE/TIME 5-25-11/1445	RECEIVED BY/STORED IN <i>SSU-1</i>	DATE/TIME 5-25-11/1445	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.	
RELINQUISHED BY/REMOVED FROM <i>SSU-1</i>	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN CHERC	DATE/TIME MAY 31 2011		
RELINQUISHED BY/REMOVED FROM <i>R. Williamson</i>	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN FEDEX	DATE/TIME		
RELINQUISHED BY/REMOVED FROM <i>Sparks</i>	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN <i>Sparks</i>	DATE/TIME 06/01/11		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY			TITLE	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD			DISPOSED BY	

CH2M Hill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F11-127-051	PAGE 1 OF 1
COLLECTOR <i>Sparks</i>	COMPANY CONTACT BAUER, RG	TELEPHONE NO. 373-3931	PROJECT COORDINATOR BAUER, RG	PRICE CODE 8C	DATA TURNAROUND 15 Days / 15 Days		
SAMPLING LOCATION 216-S-26 RV 8	PROJECT DESIGNATION ARRA Verification Sampling of the 216-S-26 Waste Site and 200-W-148-PL			AIR QUALITY <input type="checkbox"/>			
ICE CHEST NO. <i>GWS099</i>	FIELD LOGBOOK NO. <i>HVF-N-507-19</i>	ACTUAL SAMPLE DEPTH <i>6"-12"</i>	COA 302222E510	METHOD OF SHIPMENT FEDERAL EXPRESS	ORIGINAL		
SHIPPED TO Eberline Services	OFFSITE PROPERTY NO. <i>SEE FILE 216-S-26</i>	BILL OF LADING/AIR BILL NO. <i>79715300 7698</i>					
MATRIX* A=Air DL=Drum L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other		PRESERVATION None					
		HOLDING TIME 6 Months					
		TYPE OF CONTAINER G/P					
		NO. OF CONTAINER(S) 1					
		VOLUME 120mL					
SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B2F019		SAMPLE ANALYSIS Tridium - #3 (Tribium);					
SAMPLE NO. B2F061	MATRIX* SOIL	SAMPLE DATE <i>5-25-11</i>	SAMPLE TIME <i>1115</i>				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM <i>D Sparks</i>	DATE/TIME 5-25-11 / 1445	RECEIVED BY/STORED IN <i>SSU I</i>	DATE/TIME 5-25-11 / 1445	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
RELINQUISHED BY/REMOVED FROM <i>SSU-1</i>	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN <i>D. R. Williamson</i>	DATE/TIME MAY 31 2011	
RELINQUISHED BY/REMOVED FROM <i>O. R. Williamson</i>	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN <i>PEDEX</i>	DATE/TIME	
RELINQUISHED BY/REMOVED FROM <i>CHPRG</i>	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN <i>Redacted</i>	DATE/TIME 08/01/11 1000	
RELINQUISHED BY/REMOVED FROM <i>CHPRG</i>	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN <i>Redacted</i>	DATE/TIME	
RELINQUISHED BY/REMOVED FROM <i>CHPRG</i>	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN <i>Redacted</i>	DATE/TIME	
LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME	

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CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F11-127-053	PAGE 1 OF 1
COLLECTOR <i>Sparks</i>	COMPANY CONTACT BAUER, RG	TELEPHONE NO. 373-3931	PROJECT COORDINATOR BAUER, RG	PRICE CODE 8C	DATA TURNAROUND 15 Days / 15 Days
SAMPLING LOCATION 200-W-148-PL RV 10	PROJECT DESIGNATION ARRA Verification Sampling of the 216-S-26 Waste Site and 200-W-148-PL	SAF NO. F11-127		AIR QUALITY <input type="checkbox"/>	18.002
ICE CHEST NO. GWS099	FIELD LOGBOOK NO. HNF-N-507-19	ACTUAL SAMPLE DEPTH 6"-12"	COA 302222ES10	METHOD OF SHIPMENT FEDERAL EXPRESS	
SHIPPED TO Eberline Services	OFFSITE PROPERTY NO. 2687	BILL OF LADING/AIR BILL NO. 797153007698			
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)				
SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B2F021		PRESERVATION None HOLDING TIME 6 Months TYPE OF CONTAINER G/P NO. OF CONTAINER(S) 1 VOLUME 120mL SAMPLE ANALYSIS Tritium - H3 (Tritium);			
SAMPLE NO. B2F063	MATRIX* SOIL	SAMPLE DATE 5-25-11	SAMPLE TIME 1125	X	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Don Sparks</i>	DATE/TIME 5-25-11/1445	RECEIVED BY/STORED IN SSU- 2	DATE/TIME 5-25-11/1445	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.	
RELINQUISHED BY/REMOVED FROM SSU- 1	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN D. R. Williamson	DATE/TIME MAY 31 2011		
RELINQUISHED BY/REMOVED FROM CHPRC	DATE/TIME MAY 31 2011	RECEIVED BY/STORED IN FEDEX	DATE/TIME		
RELINQUISHED BY/REMOVED FROM <i>Don Sparks</i>	DATE/TIME 5-25-11/1445	RECEIVED BY/STORED IN D. R. Williamson	DATE/TIME 5-25-11/1445		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
LABORATORY SECTION	RECEIVED BY		TITLE		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD		DISPOSED BY		
DATE/TIME		DATE/TIME		DATE/TIME	

REVISION 1



# **RICHMOND, CA LABORATORY** **SAMPLE RECEIPT CHECKLIST**

Client: CHPRC City RICHLAND State WA  
 Date/Time received 06/01/11 1000 CoC No. F11-127-043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053  
 Container I.D. No. 6WS-099 Requested TAT (Days) 15 P.D. Received Yes [ ] No [ ]

## **INSPECTION**

- Custody seals on shipping container intact? Yes [x] No [ ] N/A [ ]
- Custody seals on shipping container dated & signed? Yes [x] No [ ] N/A [ ]
- Custody seals on sample containers intact? Yes [x] No [ ] N/A [ ]
- Custody seals on sample containers dated & signed? Yes [x] No [ ] N/A [ ]
- Packing material is: Wet [ ] Dry [x]
- Number of samples in shipping container: 11 Sample Matrix S
- Number of containers per sample: 1 (Or see CoC         )
- Samples are in correct container Yes [x] No [ ]
- Paperwork agrees with samples? Yes [x] No [ ]
- Samples have: Tape [ ] Hazard labels [ ] Rad labels [ ] Appropriate sample labels [x]
- Samples are: In good condition [x] Leaking [ ] Broken Container [ ] Missing [ ]
- Samples are: Preserved [ ] Not preserved [ ] pH N/A Preservative
- Describe any anomalies:

14. Was P.M. notified of any anomalies? Yes [ ] No [ ] Date           
 15. Inspected by [Signature] Date: 06/01/11 Time: 1130

Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	Wipe	Customer Sample No.	Beta/Gamma cpm	Ion Chamber mR/hr	wipe
<u>10 samples</u>	<u>LSO</u>						

Ion Chamber Ser. No.           
 Alpha Meter Ser. No.           
 Beta/Gamma Meter Ser. No. 100482

Calibration date           
 Calibration date           
 Calibration date 24 SEP 10